

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A method for obtaining fibrinogen from milk, comprising:
  - (a) contacting the milk with a cation exchange chromatography substrate under conditions where the substrate and the milk is at a pH which is higher than the pI of fibrinogen and the fibrinogen binds to the substrate;
  - (b) optionally washing the substrate to remove unbound components; and
  - (c) removing the bound fibrinogen from the substrate by using irrigating means, which irrigating means has an increased ionic strength or increased pH or both relative to the conditions in step (a).
2. (original) A method as claimed in claim 1 wherein the obtained fibrinogen is at least 60%.
3. (canceled).
4. (currently amended) A method as claimed in claim 1 wherein ~~the condition in step (a) is that~~ the substrate and the milk is at a pH which is greater than pH 5.5.
5. (currently amended) A method as claimed in claims 4 wherein the pH is ~~around~~ about pH 6.
6. (previously presented) A method as claimed in claim 1 wherein steps (b) and (c) are performed at a pH greater than pH 5.5 but less than pH 14.0.

7. (original) A method as claimed in claim 6 wherein the washing in step (b) is performed using an irrigating means which has an ionic strength of 0.15M and a pH of 5.5-6.5, or an ionic strength of 0.1 M and a pH of greater than 6.5.
8. (previously presented) A method as claimed in claim 6 wherein the irrigating means in step (c) has an ionic strength of equal to or greater than 0.10M and a pH of 5.5-6.5, or an ionic strength of equal to or greater than 0.05M and a pH of greater than 6.5.
9. (previously presented) A method as claimed in claim 1 wherein the milk is whole milk, skimmed milk, milk whey or milk fraction.
10. (previously presented) A method as claimed in claim 1 wherein the milk contains one or more agents capable of disrupting casein micelles.
11. (original) A method as claimed in claim 10 wherein the agent is a chelating agent.
12. (previously presented) A method as claimed in claim 10 wherein the agent is EDTA, EGTA or citrate.
13. (previously presented) A method as claimed in claim 1 wherein the substrate is in a batch format or a column format.
14. (original) A method as claimed in claim 13 wherein the column mode of contacting is by fixed bed adsorption, expanded bed adsorption or fluidised bed adsorption.
15. (previously presented) A method as claimed in claim 1 wherein the fibrinogen is transgenic fibrinogen.
16. (previously presented) A method as claimed in claim 1 wherein the fibrinogen is human fibrinogen.

17. (canceled) A method for obtaining fibrinogen from milk comprising subjecting milk to ion exchange chromatography.
18. (canceled) The method as claimed in claim 17 wherein the obtained fibrinogen is at least 60% pure.
19. (canceled) The method as claimed in claim 17 wherein the milk contains one or more agents capable of disrupting casein micelles.
20. (canceled) The method as claimed in claim 19 wherein the agent is a chelating agent.
21. (canceled) The method as claimed in claim 19 wherein the agent is EDTA, EGTA or citrate.
22. (canceled) The method as claimed in claim 17 wherein the cation exchange chromatography is in a batch format or a column format.
23. (canceled) The method as claimed in claim 22 wherein the column format of contacting milk with a cationic exchange media is by fixed bed adsorption, expanded bed adsorption or fluidised bed adsorption.
24. (canceled) The method as claimed in claim 17 wherein the fibrinogen is transgenic fibrinogen.
25. (canceled) The method as claimed in claim 17 wherein the fibrinogen is human fibrinogen.
26. (withdrawn) Fibrinogen which is substantially free from viral contamination.

27. (withdrawn) Fibrinogen obtainable according to the method as claimed in claim 16.
28. (withdrawn) A fibrin adhesive or sealent containing fibrinogen as claimed in claim 26 or 27.
29. (withdrawn) A fibrin adhesive or sealent as claimed in claims 28 which contains thrombin,  $\text{Ca}^{2+}$  and Factor XIII.
30. (withdrawn) A fibrin adhesive or sealent as claimed in claim 28 comprising two components, one component containing fibrinogen and Factor XIII and the other component containing thrombin and  $\text{Ca}^{2+}$ .
31. (withdrawn) A kit comprising fibrinogen as claimed in claims 26 or 27 and instructions for use.
32. (withdrawn) A kit as claimed in claims 31 which also comprises thrombin,  $\text{Ca}^{2+}$  and Factor XIII.
33. (withdrawn) A method for producing a fibrin adhesive or sealent, comprising mixing fibrinogen with thrombin, wherein the fibrinogen is as claimed in claim 26 or 27.
34. (withdrawn) A method as claimed in claim 33, wherein Factor XIII and  $\text{Ca}^{2+}$  are mixed with the fibrinogen and thrombin.
35. (canceled)
36. (withdrawn) A method of surgery or therapy comprising placing on or within an animal or a body part of an animal a seal or an adhesive, comprising fibrinogen as claimed in claims 26 or 27.

37. (withdrawn) A method as claimed in claim 36 wherein Factor XIII, thrombin and  $\text{Ca}^{2+}$  are mixed with the fibrinogen before use.

38. (withdrawn) A method as claimed in claim 36 or 37 wherein the animal is a human.

39. (canceled)